

# HIMCO



***NON-  
TARNISHABLE***

## STORE FRONT CONSTRUCTION

**THE HIMMEL BROTHERS CO.**

1409-15 Dixwell Avenue • • • Hamden, Conn.  
(Suburb of New Haven)

CATALOG H • 1938



**"HIMCO"**



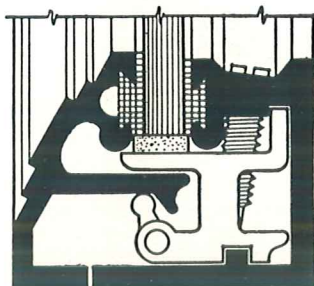
# NON-TARNISHABLE STORE FRONT CONSTRUCTIONS

**A Complete "Himco" Line in Either Extruded, Solid Rolled, or Stainless Laminated Metal**

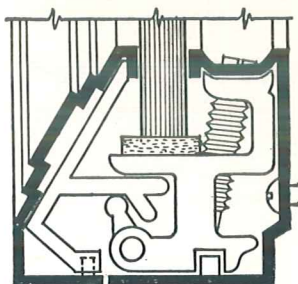
(Patented)

We offer to the architect a complete glass setting construction either in architectural extruded sections for the highest quality store fronts, or in rolled solid metals for medium priced work.

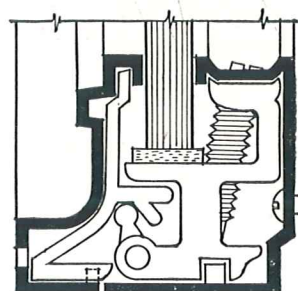
We do not erect these constructions but the sections are stocked by reputable glaziers throughout the country and are generally erected through the glaziers, plate glass manufacturers, or setters.



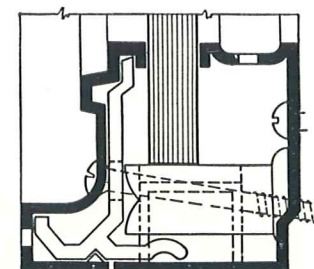
**No. 400 Series Setting**  
Architectural Extruded Bronze



**No. 70 Setting**  
Rolled Solid and Stainless  
Laminated Metal



**No. 80 Setting**  
Rolled Solid and Stainless  
Laminated Metal



**No. 60 Setting**  
Rolled Solid and Stainless  
Laminated Metal

## Essential Elements for Satisfactory Store Front Construction

The principal factor in satisfactory glass setting construction is in holding the glass in a cushion-like grip which counteracts shocks from wind or vibration and yet provides for expansion and contraction.

The setting member must be so arranged that it is possible to set and remove glass in a minimum amount of time in case of accident as well as in first erection. It must be a simple, quickly erected construction with a maximum amount of glass protection, with reduced labor charges.

## Modern Metals for Glass Settings

### Cold Rolled Metals

Stainless Chrome-Nickel  
(chromium 18%, nickel 8%)  
Stainless Non-Magnetic Steel 18-8  
Bronze  
Copper  
"Alumcro" (aluminum alloy)

Stainless Laminated Metal (Patented)  
"Alumcro-x-ite" and "Alumilite"

*Note*—"Alumcro-x-ite" is an Alumcro Oxide hard surface aluminum finish not subject to discoloration like Aluminum.

### Extruded Metals

"Alumcro" (aluminum alloy)

Bronze

## General Information Pertaining to Stainless Chrome-Nickel 18-8%

Stainless Chrome-Nickel 18-8% and Stainless Steel 18-8% are the same metal known under different names, and are non-tarnishable and rustproof. All Stainless Chrome-Nickel 18-8% is non-magnetic and this quality can easily be detected by use of an ordinary magnet. If magnetic, it is not genuine Stainless Chrome-Nickel. Ordinary Stainless Steel with no nickel content is magnetic, will magnetize a certain amount of iron dust which is constantly floating in the air and will settle on the Stainless, causing a film of rust. Genuine Stainless 18-8% Chrome-Nickel, which is non-magnetic, will not collect said iron which rusts, making it a superior metal for exposure.

## Finishes

The standard finish for Bronze, "Alumcro," Copper, Stainless Chrome-Nickel, Stainless Steel, Stainless Laminated Metal, is polished.

Bronze or Copper supplied in Oxidized or Statuary finishes on order. "Alumcro" in "Alumcro-x-ite" on order.

Satin Finish supplied on all metals.



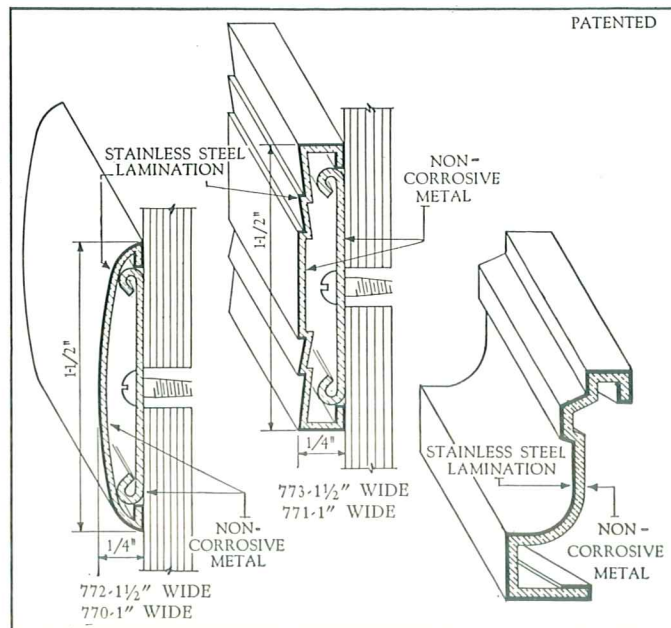
# "HIMCO" STAINLESS LAMINATED METAL

(PATENTED)

**A New, Non-tarnishable Moulding Construction for Store Fronts and Other Purposes  
at a Price Within the Range of Copper, Bronze or Aluminum**

"Himco" Stainless Laminated Metal is a new, non-tarnishable metal for store front construction which has already proven a great success as indicated by the demand created, *and the cost is within the price range of copper, bronze or aluminum.* It requires no polishing of any description.

Stainless Laminated Metal can be used in connection with solid Stainless Steel 18-8 because the same type of non-magnetic Stainless material is used in the fabrication of the Stainless Laminated Metal construction.



**"Himco" Stainless Laminated Snap-on Mouldings**

For complete line see our catalog in File index

The only maintenance necessary is that, whenever the plate glass of the show window is washed, the Stainless Laminated Metal shall be washed at the same time and wiped off with an ordinary chamois (*not polished*). In this way the high lustre of the metal will be retained indefinitely.

The "Himco" Stainless Laminated Mouldings have a wide use in modern decorative interiors and exteriors. They are especially useful as cover moulds for sheet materials. See our catalog on these mouldings in Sweet's File index.

## **Especially Valuable for Alteration or Replacement Work**

Although also specified for new work because of its appearance, first cost, and minimum upkeep, one of its important advantages is that it is made in exactly the same sections as our standard settings—No. 70, No. 80 or No. 60. Anyone having these store fronts already in place, and desiring to improve the appearance of his store according to the modern trend, can have his present "Himco" construction replaced with Stainless Laminated Metal face mouldings *without disturbing the balance of the glass setting.*

"Himco" Stainless Laminated Metal is guaranteed to give the same identical results as our solid, non-magnetic Stainless Steel 18-8 sections, because the same type of Stainless material is used in its fabrication.

The principal point of interest is that the cost of "Himco" Stainless Laminated Metal is within the price range of ordinary copper, bronze or aluminum store front construction. Sample mouldings of this material will gladly be sent upon request.

## **The Four Types of "Himco" Constructions**

### **Architectural Extruded Metal**

#### **No. 400 Series with the Cushion Glass Grip (Patented)**

For the very finest type of modern store fronts. Glass settings can be supplied separately for cast

bronze or aluminum alloy by others. The positive screw flange control (patented) eliminates all exposed screws and the rubber cushions or gaskets prevent glass breakage.

### **Rolled Solid Metal or Stainless Laminated Metal**

#### **No. 70 (Patented)**

Our newest modern design based on the No. 400 Series setting, but in rolled solid metals having the same type of positive screw flange control, eliminating exposed screws.

The design of this construction is similar to the No. 60 in face section.

#### **No. 80 (Patented)**

This construction has a screw flange control, similar to No. 70 and does not have exposed screws.

#### **No. 60 (Patented)**

The setting screws pass through a metal tube from the front to the back member, assuring freedom from contact between the glass and the screw.



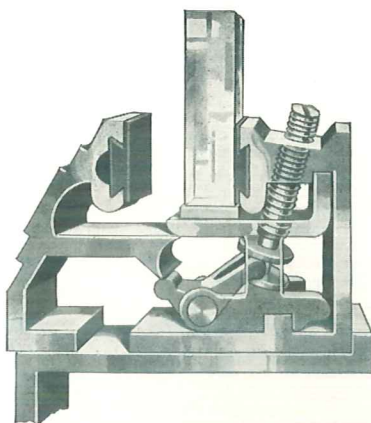
## "HIMCO" NO. 400 STORE FRONT CONSTRUCTION

### PATENTED

### ARCHITECTURAL EXTRUDED "ALUMCRO," "ALUMILITE," AND BRONZE

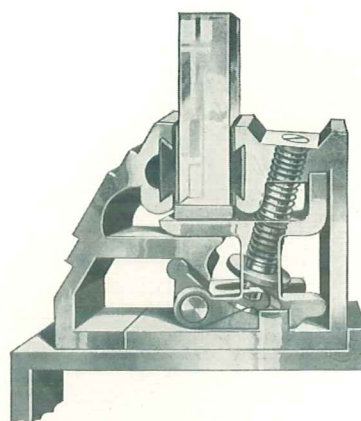
#### A New Modern Improved "Himco" Invisible Screw Cushion Type, Extruded Setting (Patented)

The illustrations below show how radical is the new method of setting glass. Composed entirely of extruded shapes the new "Himco" No. 400 sections offer an entirely new feature in rigid store front constructions. In the old No. 400 setting the glass was held in a steady but velvet like grip by means of the rubber cushions, yet allowing the glass to expand and contract, and by the concealed adjusting screw. The new section is an even greater improvement over the old both in design as well as in the method of securing the glass by the new positive setting screw. The cushions are of the finest rubber.



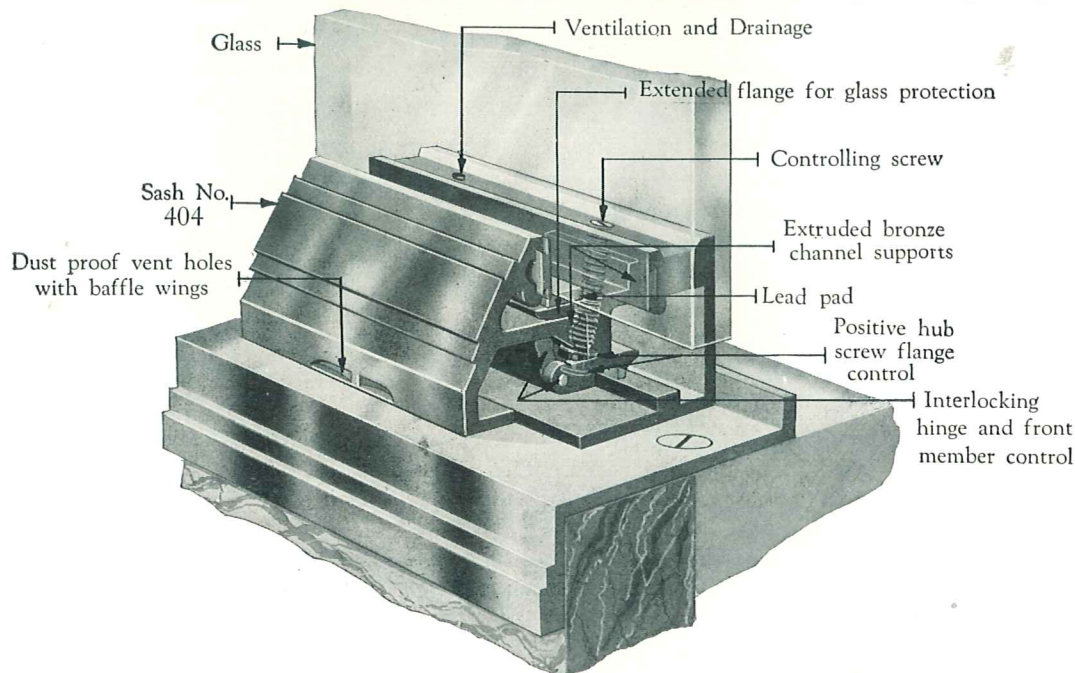
#### No Screws Show on the Face of the Setting

The setting consists of only two shapes, the front and back plates. By means of an indirect draw, acting on the interlocking members of extruded metals, glass set in "Himco" No. 404 setting is held more firmly than in the old type and less pressure is exerted on the glass. The setting screws, which cannot work loose, are also more available for setting the glass yet invisible from the exterior of the construction giving the appearance of strictly architectural cast construction.



The two sections at full size below illustrate the method by which the extruded lever arms are operated by means of this set screw. It is impossible for this screw to work loose, on account of vibration from the street, thus reducing tightening supervision necessary for many old types of construction.

#### FULL SIZE SECTIONS THROUGH GLASS SETTING SHOWING OPERATION OF THE SETTING SCREWS



#### CONSTRUCTION AND METHODS OF HOLDING THE GLASS AND THE SETTING SCREW

##### The Any Angle Extruded Corner Construction

The new lock gear type of corner construction allows the use of a universal section for any angles of 5 degrees desired. By locking the two center members together the wing pieces of the corner are made absolutely rigid. The only part which changes is the back spring grip. This is shipped to fit the correct angle desired.

##### Extruded Metals

"Himco" No. 400 construction is made either in "Alumcro" (aluminum alloy) or in bronze. It is impossible to make this section in extruded Stainless Chrome-Nickel (chromium 18%—nickel 8%) or genuine Stainless Steel. If a white metal is desired we suggest using "Alumcro" made under our own

direction which will stay bright and take a high polish.

*In Specifying*—We suggest that our glass settings be included for use with all cast bronze stone front construction, for the protection and easy accessibility of installing the glass, whether the work is done by an ornamental bronze contractor or the entire front is of our section. These sections have been designed and made by experts specializing in the protection of plate glass in window constructions for many years. We will be only too glad to advise with any architect or bronze contractor as to the best methods of using the sections with their types of special construction. Many times on account of incorrect detailing of the show windows, it is very hard to install plate glass at the building. This causes high labor charges and dissatisfaction and misunderstandings arising between the owner and the architect and contractor.







# "HIMCO" NO. 70 STORE FRONT CONSTRUCTION

PATENTED

## THE NEW, INEXPENSIVE MODERN GLASS SETTING WITHOUT EXPOSED SCREWS

Made in Rolled Stainless Laminated Metal, "Alumcro," "Alumilite," Bronze and Solid Stainless Steel (copper made only to order).

## A NEW TYPE POSITIVE SETTING WITHOUT EXPOSED SCREWS

"Himco" No. 70 glass setting is similar in principle to the "Himco" No. 404 setting—in that all screws on the face of the construction are eliminated. This new setting is absolutely positive in action and the screw will not work loose by street vibrations.

An indirect draw acting with a lever on interlocking members of extruded bronze, holds the glass more firmly than in the exposed screw type sash, though less pressure is exerted on the glass. This permits the window to give to vibration and atmospheric changes, thus reducing the danger of breakage from exterior causes. The glass is further protected by the use of leather cushions on a stationary extended flange. This flange, part of the solid controlling base, safeguards the glass from contact with moving parts.

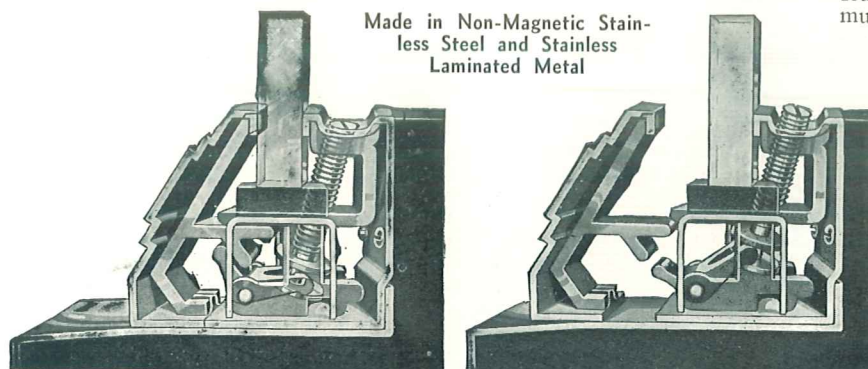
### Displays Remain Clean Longer

The sash is set squarely on the sill no matter what thickness of glass used, reducing the possibility of infiltration of dust to the inside. The baffle wings behind the exterior vents divert dust, allow ventilation and eliminate dust slides.

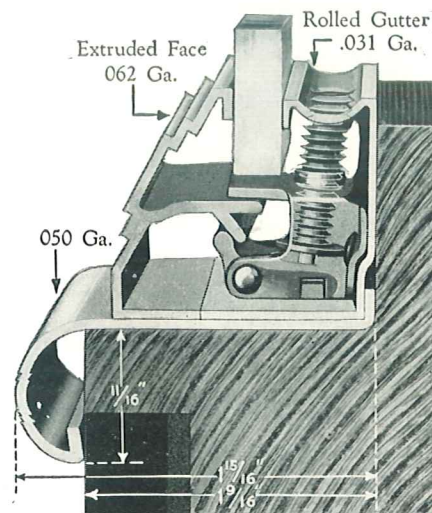
"Himco" No. 70—Harmonizes with the character of modern building design. The flat surfaces and reduced depth of construction allow the glass to be set almost on the building line. Although the mouldings are drawn, the smooth plain faces, without visible fastenings, give the effect of an extruded or cast construction.

"Himco" No. 70X—Has an extruded bronze front plate used in connection with the regular No. 70 rolled back plate sections. The No. 70X front plate allows the use of hair line miters without caps.

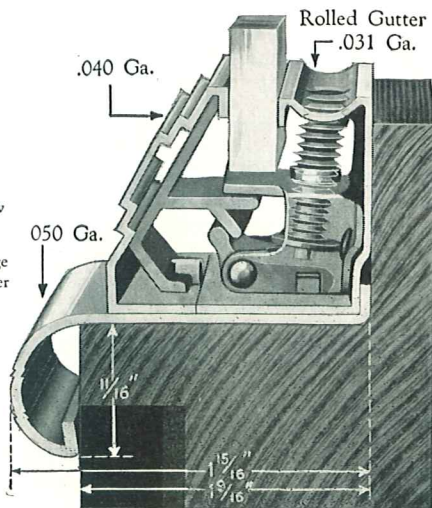
"Himco" No. 20—A new rolled Sill Section for use with No. 70 or 70X Setting in connection with structural glass, sheet materials, marble or stone. It may also be used to form a frame at head and sides of the window but head must be filled with mastic.



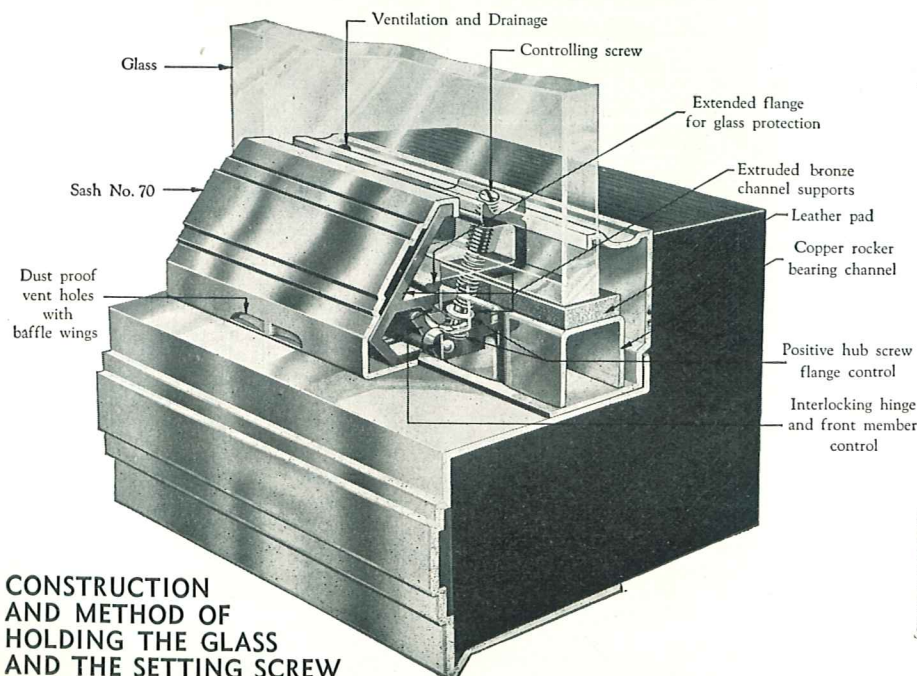
FULL SIZE SECTIONS THROUGH NO. 70. GLASS SETTING SHOWING OPERATION OF THE SETTING SCREW



NO. 70X WITH NO. 20 SILL



NO. 70 WITH NO. 20 SILL



CONSTRUCTION AND METHOD OF HOLDING THE GLASS AND THE SETTING SCREW



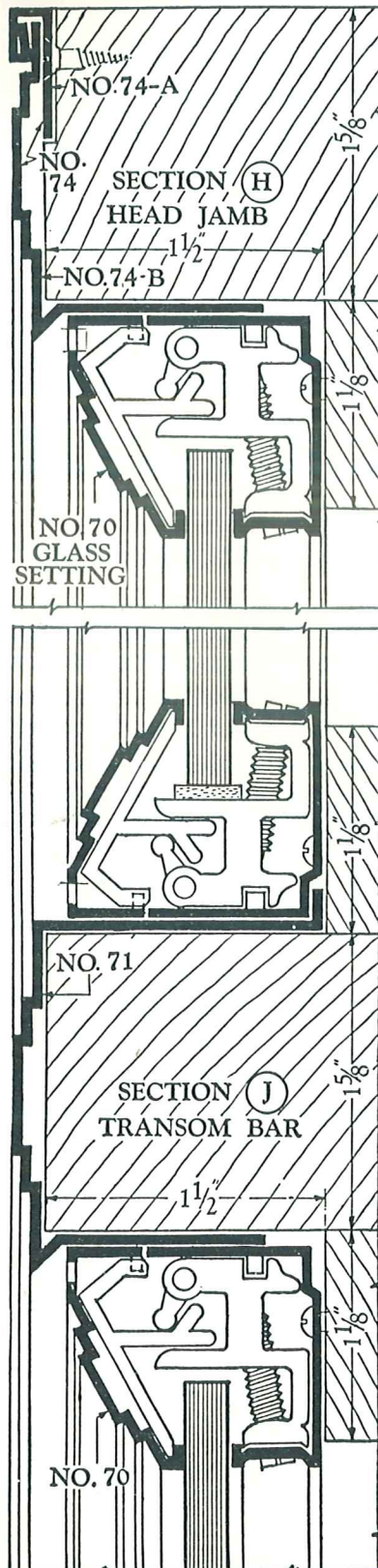


# "HIMCO" NO. 70 STORE FRONT CONSTRUCTION

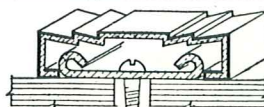
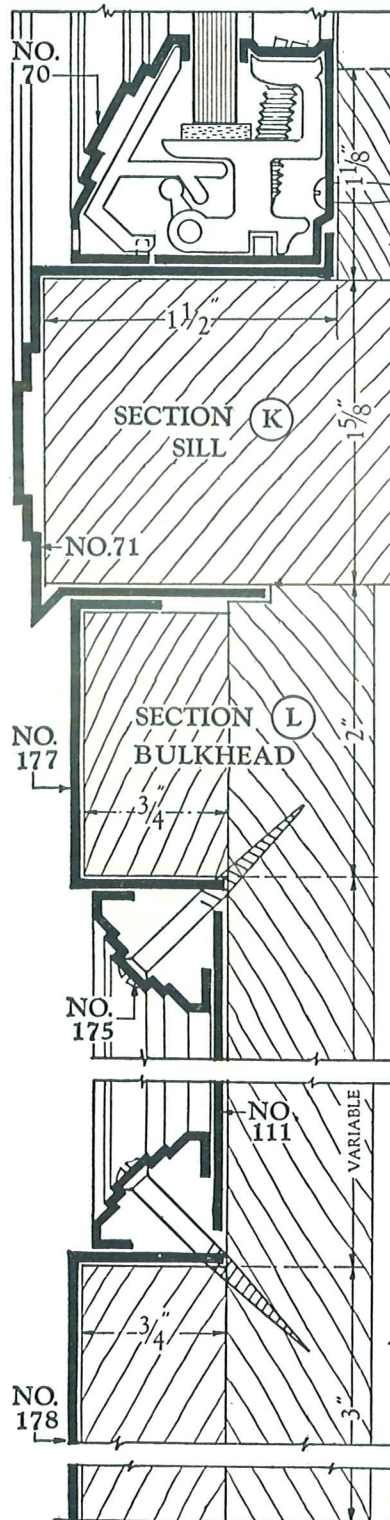
ROLLED SOLID BRONZE, "ALUMCRO," "ALUMILITE," STAINLESS STEEL,  
STAINLESS LAMINATED METAL AND "ALUMCRO-X-ITE"

70  
1

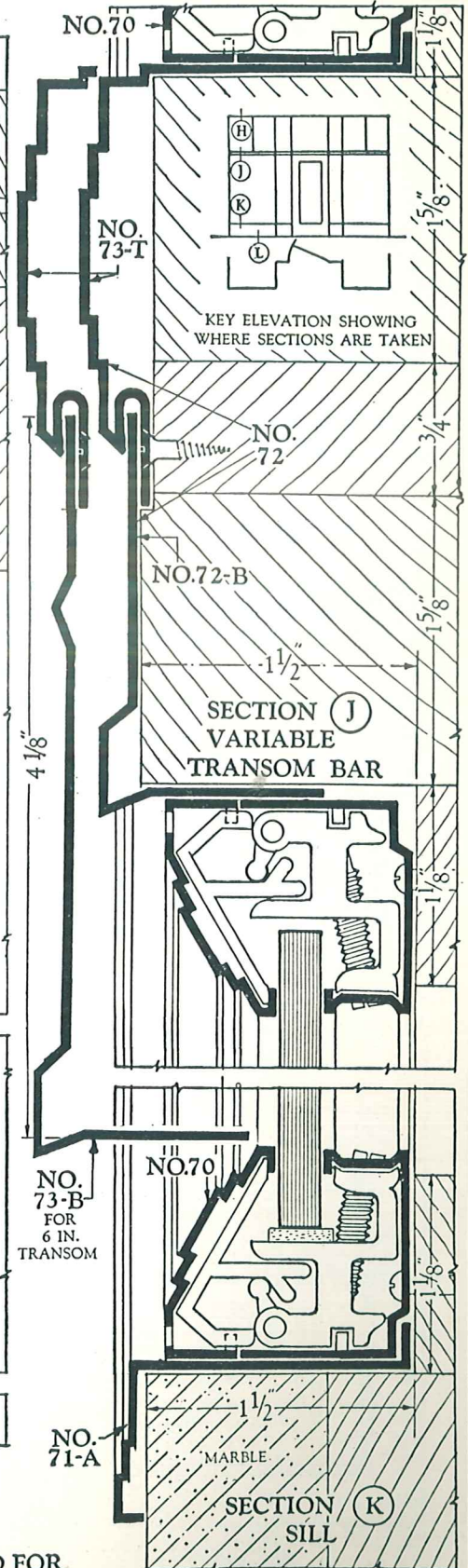
MADE IN COPPER ONLY TO ORDER



DETAILS ARE FULL SIZE



771-SNAP ON MOULDING USED FOR  
ORNAMENTAL PURPOSES







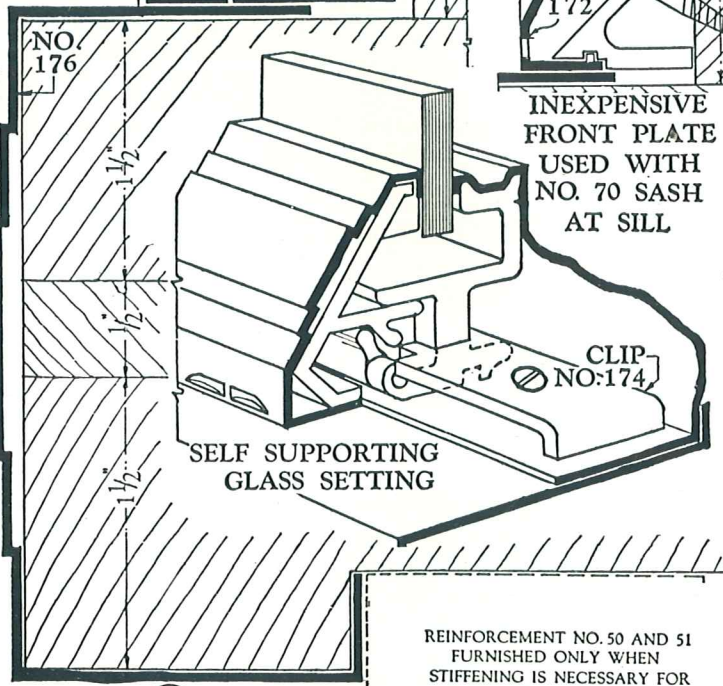
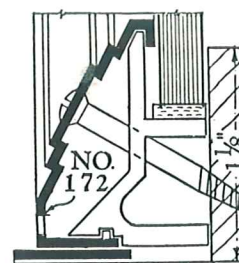
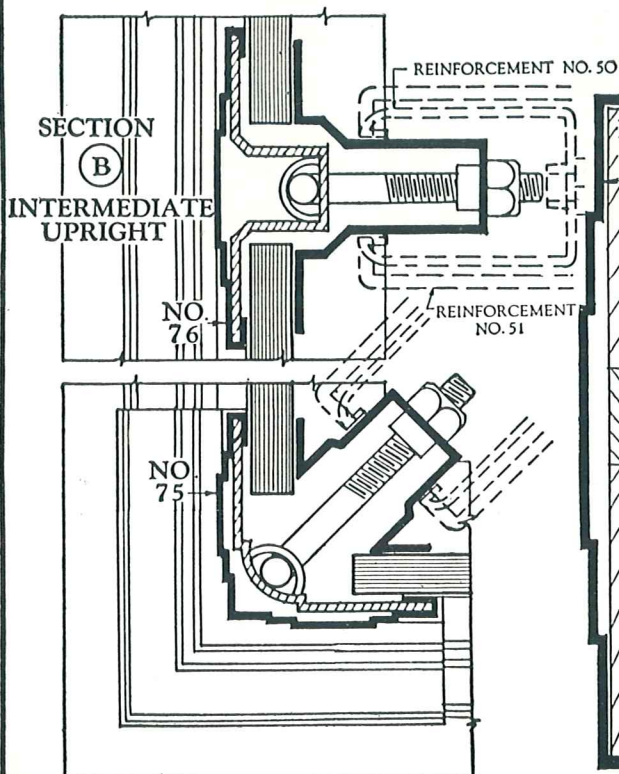
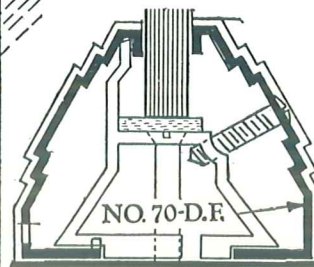
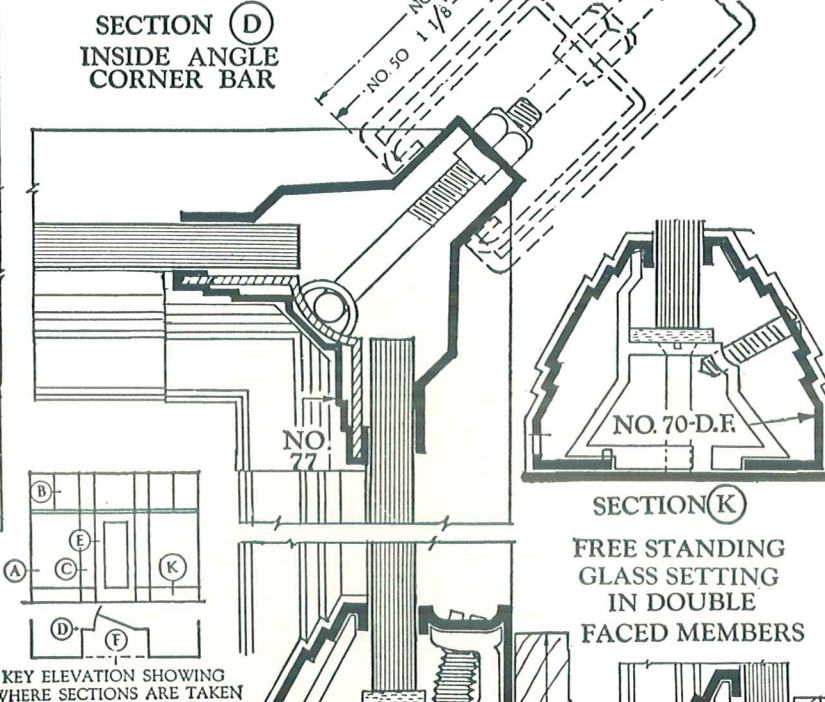
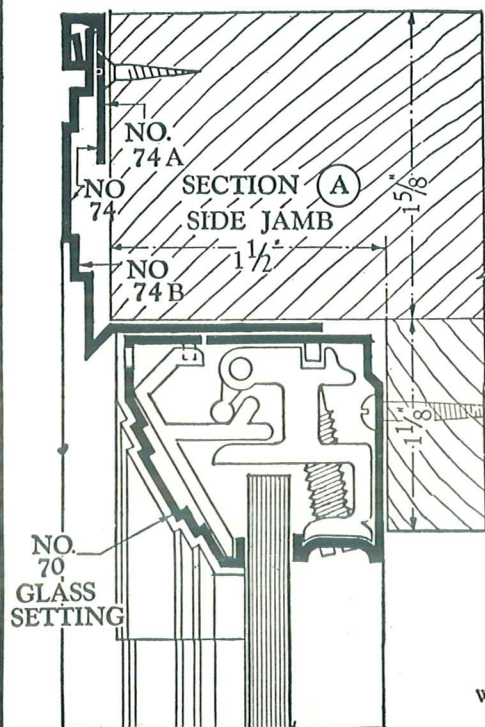
# "HIMCO" NO. 70 STORE FRONT CONSTRUCTION

ROLLED SOLID BRONZE, "ALUMCRO," "ALUMILITE," STAINLESS STEEL,  
STAINLESS LAMINATED METAL AND "ALUMCRO-X-ITE"

70  
2

MADE IN COPPER ONLY TO ORDER

NOTE: NO. 70DF CAN BE FURNISHED  
SIMILAR TO 80DF SEE PLATE 80-1



SECTION (C)  
OUTSIDE ANGLE CORNER BAR

SECTION (E) DOOR JAMB

REINFORCEMENT NO. 50 AND 51  
FURNISHED ONLY WHEN  
STIFFENING IS NECESSARY FOR  
EXTRA LARGE LIGHTS OF GLASS



# "HIMCO" NO. 80 STORE FRONT CONSTRUCTION

PATENTED

MADE IN ROLLED STAINLESS LAMINATED METAL, "ALUMCRO," "ALUMILITE,"  
BRONZE AND SOLID STAINLESS STEEL

Copper Made Only on Special Order

The particular advantage of this section is that it can be obtained in Rolled Solid Stainless Chrome-Nickel (chromium 18%—nickel 8%).\* On account of the hardness and non-corrosive character of this metal, the slight extra cost more than offsets the reduced cost of upkeep. The metal will withstand the corrosive action of acids and smoke. Its surface is impervious to atmospheric conditions and will always retain its high polish and brilliance. This section is also produced in rolled solid "Alumcro" (aluminum alloy), and bronze.

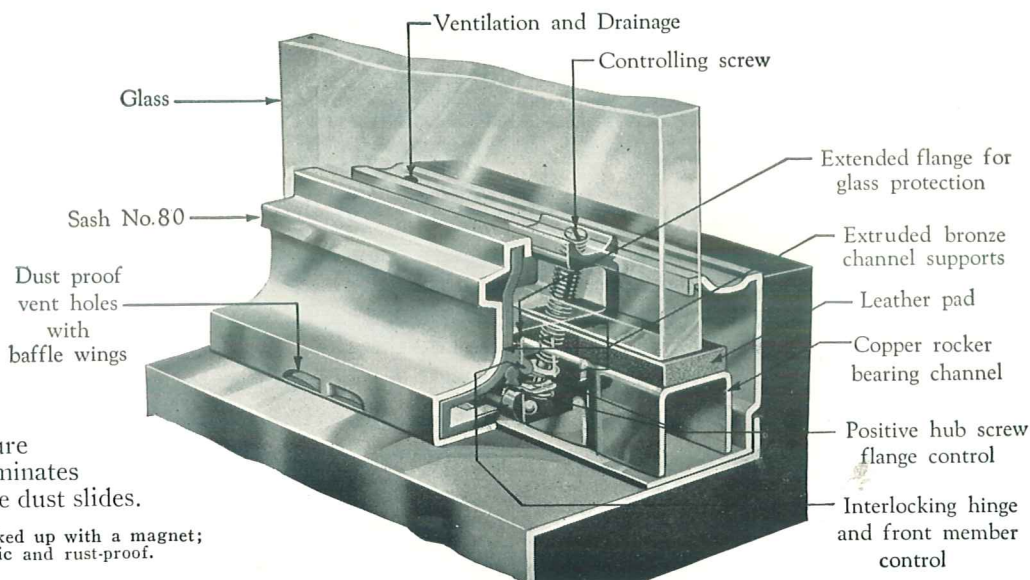
This glass setting is similar in construction to The No. 70 setting except that the design of the profile is different. It is a vast improvement over our No. 60 setting, the details of which are also shown on page 12. The new No. 80 has no screws on the face of the setting. The setting is absolutely positive in action and the screw will not work loose by vibration from the street.

The action of the indirect draw, acting with a lever, on interlocking members of extruded bronze is the same as that illustrated on page 6.

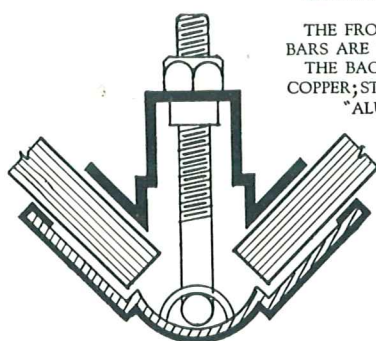
## Ventilation and Condensation—

There is a direct system of ventilation on all sides of the glass setting. The front vent holes indicated on the drawings have dust-proof baffle wings which prevent direct drafts and dust from entering show windows due to wind pressure or storms. This eliminates the use of troublesome dust slides.

\* This metal cannot be picked up with a magnet; it is therefore non-magnetic and rust-proof.

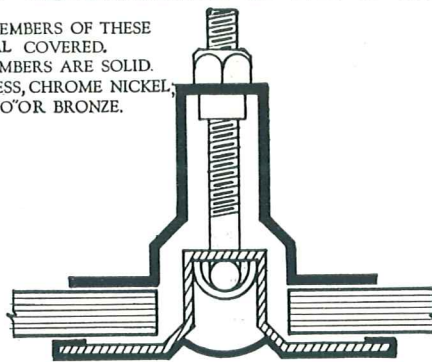


## DETAIL OF CONSTRUCTION OF NO. 80 GLASS SETTING

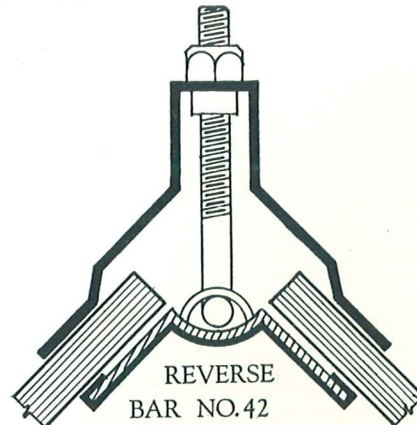


CORNER BAR NO. 41

THE FRONT MEMBERS OF THESE  
BARS ARE METAL COVERED.  
THE BACK MEMBERS ARE SOLID.  
COPPER; STAINLESS, CHROME NICKEL,  
"ALUMCRO" OR BRONZE.



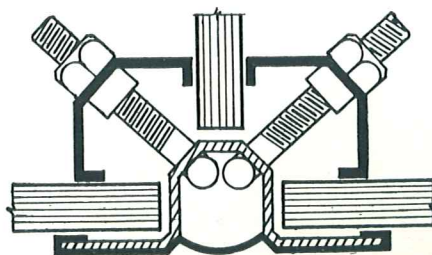
DIVISION BAR NO. 45



REVERSE  
BAR NO. 42

**Corner Bars**—These are made to fit any angle of glass setting desired. The patented method of bolting together the outer and inner sections, eliminates the use of clips, one of the commonest causes of glass breakage.

The bar constructions not only permit glass of varying thicknesses to be joined but provide equal pressure on both pieces of glass.



3-WAY BAR NO. 48

**Construction of Corner**—The corners are formed up of rolled steel sections to give rigidity and strength and are bronze plated. The sections exposed to the weather are covered with rolled copper, bronze, Stainless Chrome-Nickel or "Alumcro."

**Use of Corner Bars**—The rolled steel corner bars are used interchangeably with either the No. 60, 70 or 80 type of setting.

## FULL SIZE DETAILS OF CORNER AND DIVISION BARS



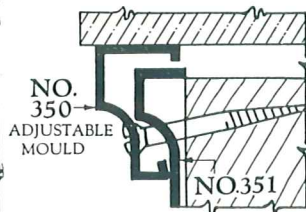
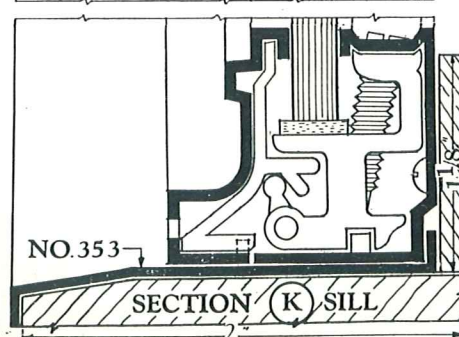
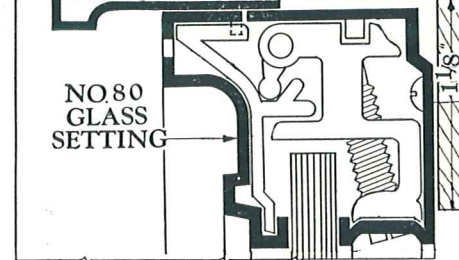
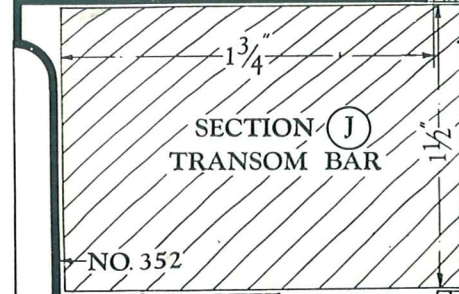
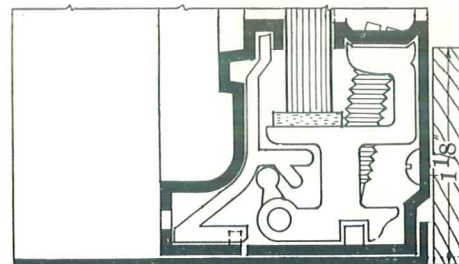
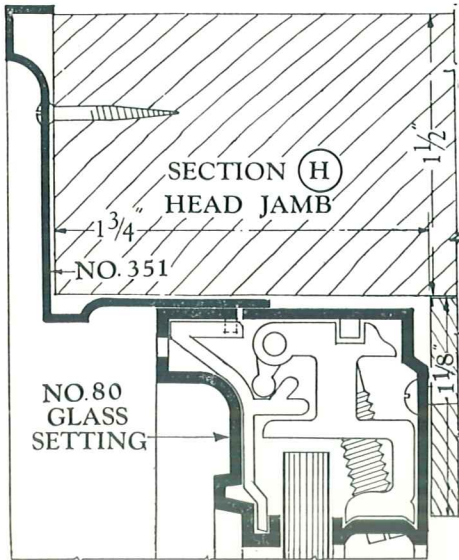


# "HIMCO" NO. 80 STORE FRONT CONSTRUCTION

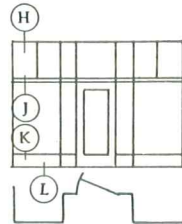
ROLLED SOLID BRONZE, "ALUMCRO," "ALUMILITE," STAINLESS STEEL, STAINLESS LAMINATED METAL AND "ALUMCRO-X-ITE"

80  
1

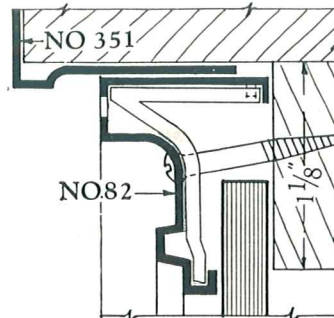
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SECTION (H)  
SHOWING USE OF ADJUSTABLE  
MOULD NO. 350

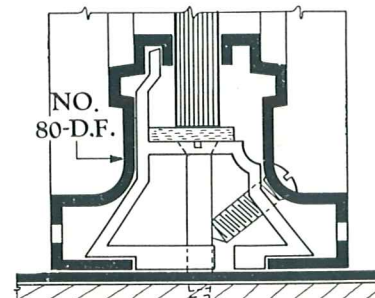


KEY ELEVATION SHOWING  
WHERE SECTIONS ARE TAKEN

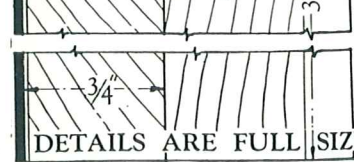
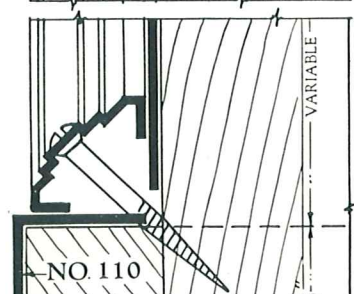
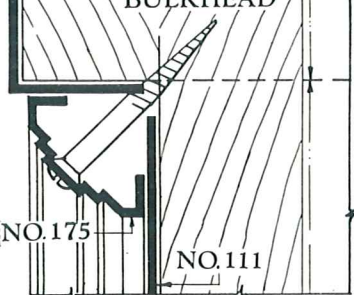
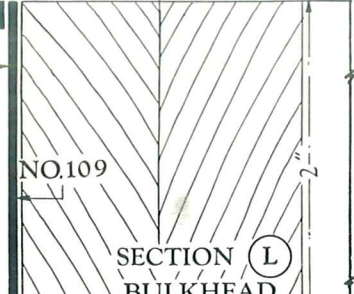
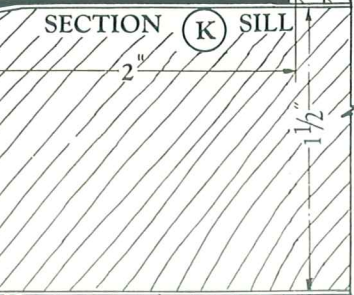
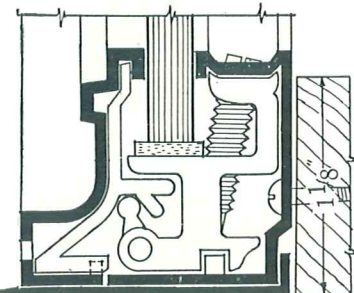


SECTION (H)  
INEXPENSIVE FRONT PLATE  
CONSTRUCTION

DETAIL ABOVE SHOWS NO. 82 FRONT PLATE,  
WHEN USED WITH NO. 80 SASH AT SILL IT  
PROVIDES AN INEXPENSIVE STORE FRONT  
CONSTRUCTION. IT DOES NOT HOWEVER  
AFFORD VENTILATION. FOR MAXIMUM GLASS  
PROTECTION USE NO. 80 GLASS SETTING



SECTION (K)  
FREE STANDING GLASS SETTING  
IN DOUBLE FACED MEMBERS



DETAILS ARE FULL SIZE



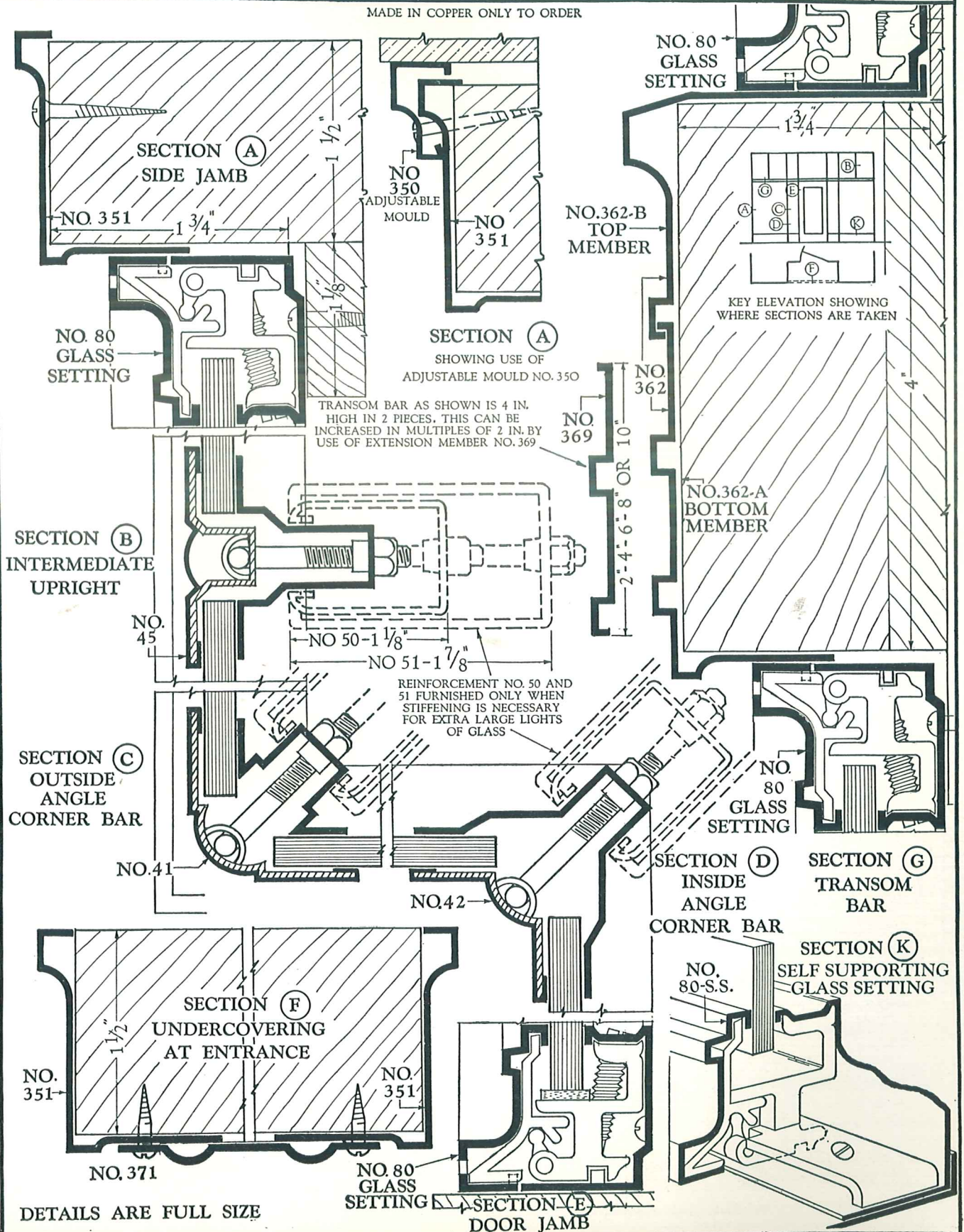


# "HIMCO" NO. 80 STORE FRONT CONSTRUCTION

ROLLED SOLID BRONZE, "ALUMCRO," "ALUMILITE," STAINLESS STEEL, STAINLESS LAMINATED METAL AND "ALUMCRO-X-ITE"

80  
2

MADE IN COPPER ONLY TO ORDER



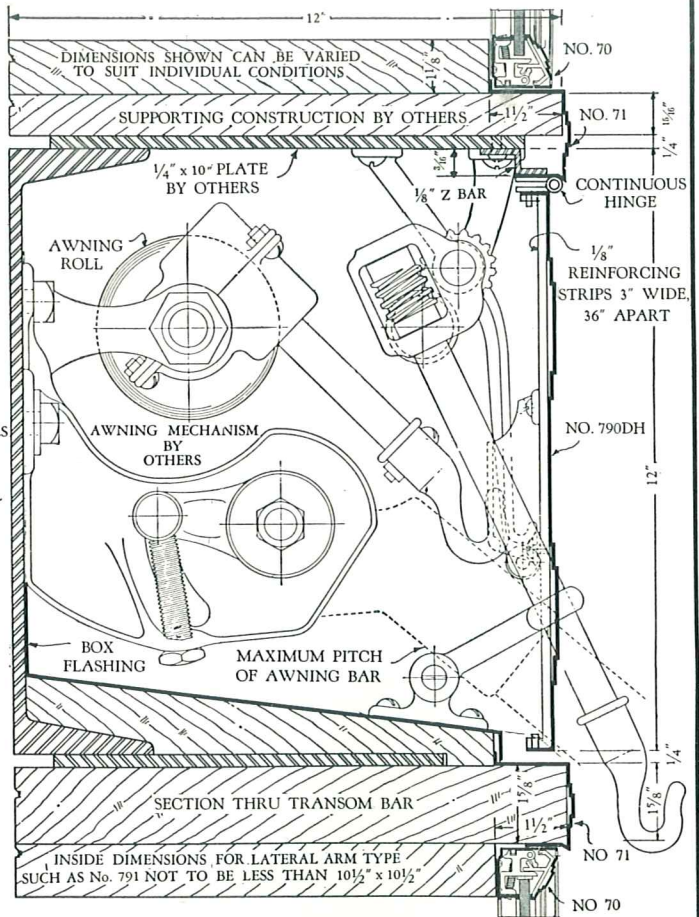
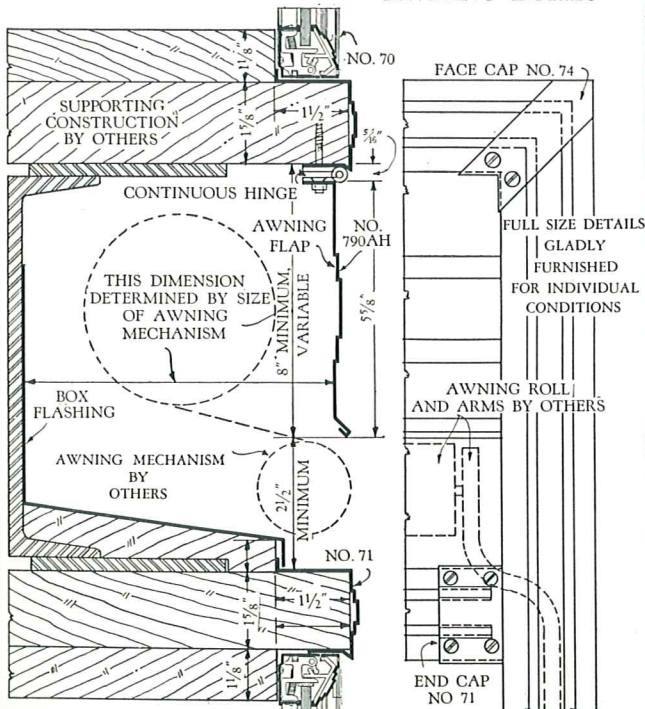
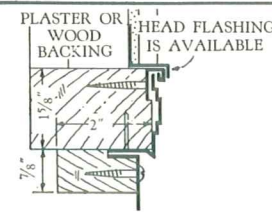
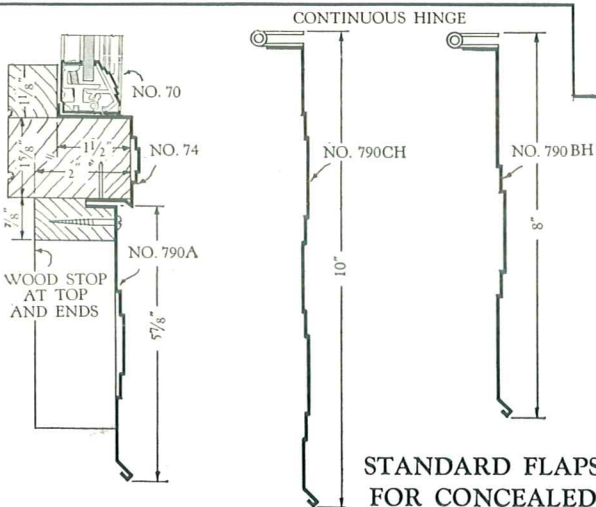
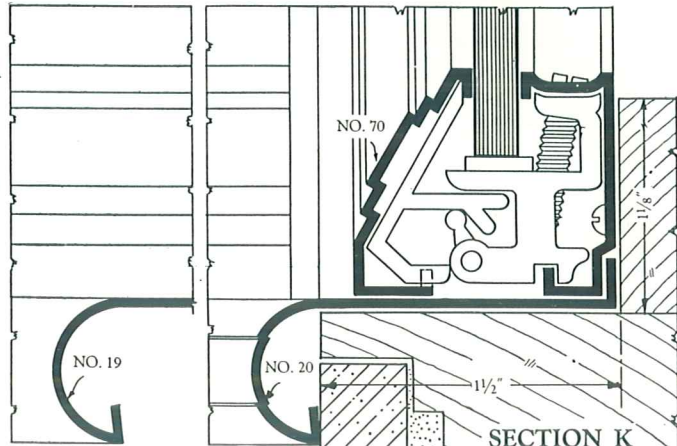
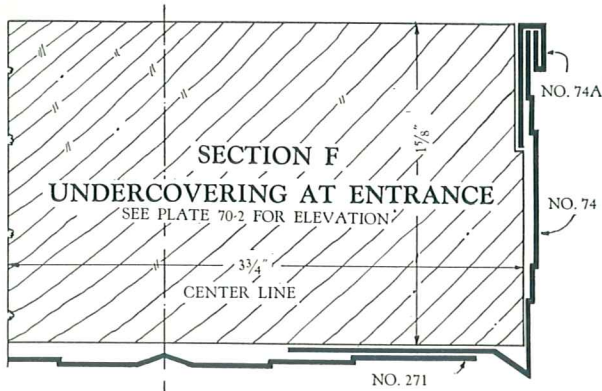




# "HIMCO" NO. 70 STORE FRONT CONSTRUCTION

ROLLED SOLID BRONZE, "ALUMCRO," "ALUMILITE," STAINLESS STEEL AND "ALUMCRO-X-ITE"

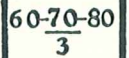
70  
3



CONCEALED AWNING BAR No. 790

CONCEALED AWNING BAR NO. 791





MADE IN COPPER ONLY TO ORDER





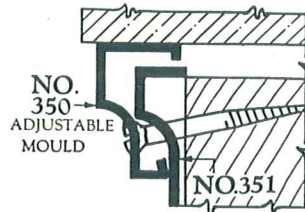
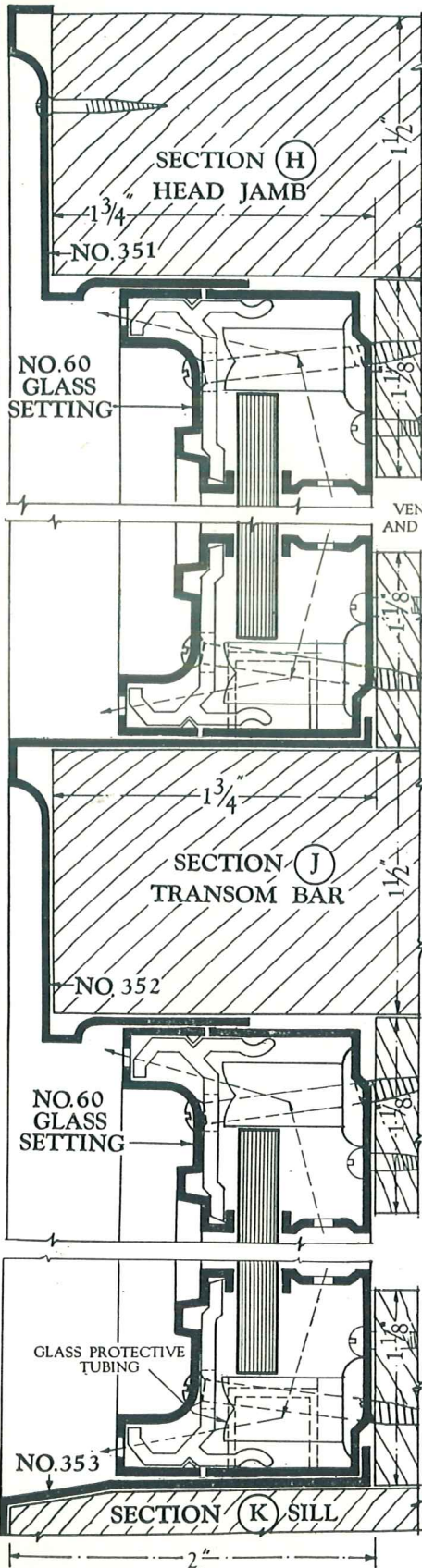


# "HIMCO" NO. 60 STORE FRONT CONSTRUCTION

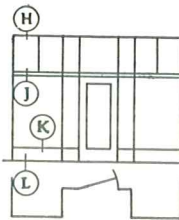
ROLLED SOLID BRONZE, "ALUMCRO," "ALUMILITE," STAINLESS STEEL, STAINLESS LAMINATED METAL AND "ALUMCRO-X-ITE"

60  
1

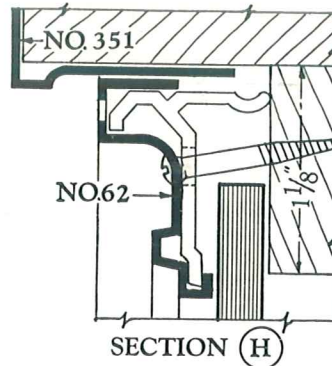
MADE IN COPPER ONLY TO ORDER



SECTION (H)  
SHOWING USE OF ADJUSTABLE  
MOULD NO. 350

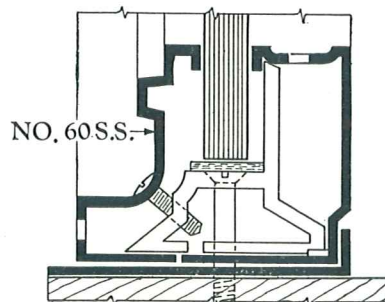


KEY ELEVATION SHOWING  
WHERE SECTIONS ARE TAKEN

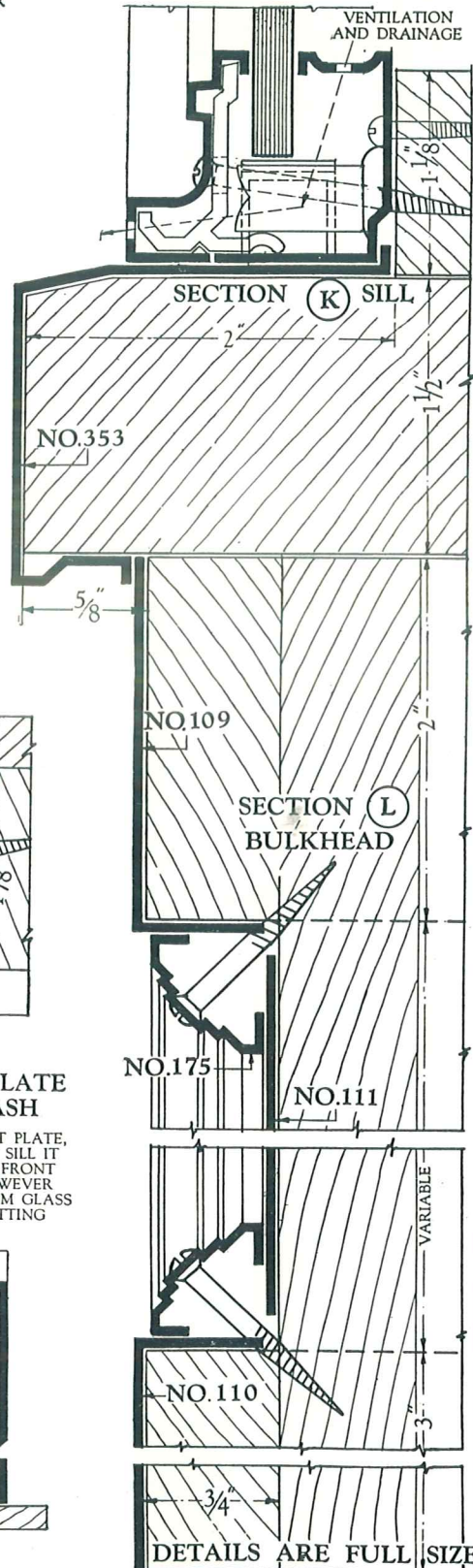


INEXPENSIVE FRONT PLATE  
USED WITH NO. 60 SASH

DETAIL ABOVE SHOWS NO. 62 FRONT PLATE,  
WHEN USED WITH NO. 60 SASH AT SILL IT  
PROVIDES AN INEXPENSIVE STORE FRONT  
CONSTRUCTION. IT DOES NOT HOWEVER  
AFFORD VENTILATION. FOR MAXIMUM GLASS  
PROTECTION USE NO. 60 GLASS SETTING



SECTION (K)  
SELF SUPPORTING  
GLASS SETTING



DETAILS ARE FULL SIZE





[ 14 ]



# "HIMCO"

## STAINLESS METAL STORE FRONT CONSTRUCTION



### "Alumcro-x-ite" and "Alumilite"

(An Alumcro Oxide Hard Surface Aluminum Finish, Not Subject to  
Discoloration Like Aluminum)

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## THE HIMMEL BROTHERS CO.

1409-15 Dixwell Avenue

- - - - -  
(Suburb of New Haven)

HAMDEN, CONN.

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